BRUHATH BENGALURU MAHANAGARA PALIKE

BYTARAYANAPURA DIVISION, BANGALORE

1st & Final Bill

Name of Work: - Construction of CC Road, RCC drain & RCC culvert in Someshwara Layout and surrounding area at Kattigenahalli in Ward No.05

Estimated Cost:- 97.00 Lakhs

PRE-MEASUREMENT SHEET

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Name of Work: Construction of CC Road, RCC drain and RCC culvert in Someshwara Layout and surrounding area at Kattigenahalli in Ward No.05

Pre Measurements

Pre measurement recorded on:

Item No	Description of Item	No	L	B1	B2	B (Avg)	D	Qty	Unit
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification								
	For RCC Drain 05/05/2020 to 16/05/2020								
	Someshwara Layout, 2nd B Cross								
	RHS	1	13.00	1.20			1.10	17.16	
		1	20.00	1.20			1.10	26.40	
		1	6.48	1.20			1.10	8.55	
		1	30.00	1.20			1.10	39.60	
		1	30.00	1.20			1.10	39.60	
		1	30.00	1.20			1.10	39.60	
		1	30.00	1.20			1.10	39.60	
		1	30.00	1.20			1.10	39.60	
		1	30.00	1.20			1.10	39.60	
		1	18.60	1.20			1.10	24.55	
		1	24.80	1.20			1.10	32.74	
		1	30.00	1.20			1.10	39.60	
		1	13.20	1.20			1.10	17.42	
		1	20.00	1.20			1.10	26.40	
	LHS	1	14.30	1.20			1.10	18.88	
		1	30.00	1.20			1.10	39.60	
		1	18.00	1.20			1.10	23.76	
		1	19.50	1.20			1.10	25.74	
		1	30.00	1.20			1.10	39.60	
		1	30.00	1.20			1.10	39.60	
		1	30.00	1.20			1.10	39.60	
		1	30.00	1.20			1.10	39.60	
		1	30.00	1.20			1.10	39.60	
		1	25.80	1.20			1.10	34.06	
		1	20.40	1.20			1.10	26.93	
	Cross - 2								
	RHS	1	30.00	1.20			1.10	39.60	
		1	10.00	1.20			1.10	13.20	
		1	25.30	1.20			1.10	33.40	
	LHS	1	21.70	1.20			1.10	28.64	
		1	22.20	1.20			1.10	29.30	
		1	16.10	1.20			1.10	21.25	
	Cross - 3								
	LHS	1	23.00	1.20			1.10	30.36	
		1	30.00	1.20			1.10	39.60	
		1	17.00	1.20			1.10	22.44	
	For RCC Culvert								
	Someshwara Layout, 2nd B Cross								
		1	8.10	1.80			1.10	16.04	
		1	8.00	1.80			1.10	15.84	
	Cross-1	1	6.50	1.80			1.10	12.87	
	Cross-3	1	6.50	1.80			1.10	12.87	
	Cross-4	1	8.00	1.80			1.10	15.84	
	For CC Road								
	Doddamma Devi Temple Opposite Road	1	15.00	3.50	3.30	3.40	0.30	15.30	
		1	15.00	3.30	3.00	3.15	0.30	14.18	

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Item	Description of Item	No	L	B1	B2	B (Avg)	D	Qty	Unit
		1	15.00	3.30	3.00	3.15	0.30	14.18	
		1	15.00	3.30	3.00	3.15	0.30	14.18	
		1	16.00	3.30	3.00	3.15	0.30	15.12	
	Cross - 1	1	15.00	1.90	2.50	2.20	0.30	9.90	
		1	18.00	3.00	3.30	3.15	0.30	17.01	
	2nd B Cross	1	15.00	5.70	5.70	5.70	0.30	25.65	
		1	15.00	5.70	5.30	5.50	0.30	24.75	
		1	15.00	5.30	5.45	5.38	0.30	24.19	
		1	15.00	5.45	5.00	5.23	0.30	23.51	
		1	15.00	5.00	4.80	4.90	0.30	22.05	
							Present Qty =	1348.64	
							Limited Qty =	1533.88	Cum

16/5/2020
Assistant Engineer
Ward No.05

16/5/2020
Assistant Executive Engineer
Bytarayanapura Sub-Division

2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	For RCC Drain 18/05/2020 to 30/05/2020								
	Someshwara Layout, 2nd B Cross								
	RHS	1	13.00	1.20			0.15	2.34	
		1	20.00	1.20			0.15	3.60	
		1	6.48	1.20			0.15	1.17	
		1	30.00	1.20			0.15	5.40	
		1	30.00	1.20			0.15	5.40	
		1	30.00	1.20			0.15	5.40	
		1	30.00	1.20			0.15	5.40	
		1	30.00	1.20			0.15	5.40	
		1	30.00	1.20			0.15	5.40	
		1	18.60	1.20			0.15	3.35	
		1	24.80	1.20			0.15	4.46	
		1	30.00	1.20			0.15	5.40	
		1	13.20	1.20			0.15	2.38	
		1	20.00	1.20			0.15	3.60	
	LHS	1	14.30	1.20			0.15	2.57	
		1	30.00	1.20			0.15	5.40	
		1	18.00	1.20			0.15	3.24	
		1	19.50	1.20			0.15	3.51	
		1	30.00	1.20			0.15	5.40	
		1	30.00	1.20			0.15	5.40	
		1	30.00	1.20			0.15	5.40	
		1	30.00	1.20			0.15	5.40	
		1	30.00	1.20			0.15	5.40	
		1	25.80	1.20			0.15	4.64	
			20.40	1.20			0.15	3.67	
	Cross - 2								
	RHS	1	30.00	1.20			0.15	5.40	
		1	10.00	1.20			0.15	1.80	
		1	25.30	1.20			0.15	4.55	
	LHS	1	21.70	1.20			0.15	3.91	
		1	22.20	1.20			0.15	4.00	
		1	16.10	1.20			0.15	2.90	

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Item No	Description of Item	No	L	B1	B2	B (Avg)	D	Qty	Unit
	Cross - 3								
	LHS	1	23.00	1.20			0.15	4.14	
		1	30.00	1.20			0.15	5.40	
		1	17.00	1.20			0.15	3.06	
	For RCC Culvert								
	Someshwara Layout, 2nd B Cross								
		1	8.10	1.80			0.15	2.19	
		1	8.00	1.80			0.15	2.16	
	Cross-1	1	6.50	1.80			0.15	1.76	
	Cross-3	1	6.50	1.80			0.15	1.76	
	Cross-4	1	8.00	1.80			0.15	2.16	
	For CC Road								
	Doddamma Devi Temple Opposite Road	1	15.00	3.50	3.30	3.40	0.15	7.65	
		1	15.00	3.30	3.00	3.15	0.15	7.09	
		1	15.00	3.30	3.00	3.15	0.15	7.09	
		1	15.00	3.30	3.00	3.15	0.15	7.09	
		1	16.00	3.30	3.00	3.15	0.15	7.56	
	Cross - 1	1	15.00	1.90	2.50	2.20	0.15	4.95	
		1	18.00	3.00	3.30	3.15	0.15	8.51	
	2nd B Cross	1	15.00	5.70	5.70	5.70	0.15	12.83	
		1	15.00	5.70	5.30	5.50	0.15	12.38	
		1	15.00	5.30	5.45	5.38	0.15	12.09	
		1	15.00	5.45	5.00	5.23	0.15	11.76	
		1	15.00	5.00	4.80	4.90	0.15	11.03	
							Present Qty=	263.91	Cum

20/5/2020

Assistant Engineer
Ward No.05

20/5/2020

Assistant Executive Engineer
Bytarayanapura Sub-Division

4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as per specifications								
	For RCC Drain 01/06/2020 to 16/06/2020								
	Someshwara Layout, 2nd B Cross								
1	RHS								
	Total length of drain = 326.08 Mtr								
	Main Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	2610	2.40			0.62	3883.68	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	20	330.08			0.62	4092.99	
2	LHS								
	Total length of drain = 278.00 Mtr								
	Main Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	2225	2.40			0.62	3440.80	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	20	278.00			0.62	3447.20	
3	Cross-2 (RHS)								

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01/06/2020 to 16/6/2020

Item No	Description of Item	No	L	B1	B2	B (Avg)	D	Qty	Unit
	Total length of drain = 65.30 Mtr								
	Main Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	523	2.40			0.62	778.22	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	20	65.30			0.62	809.72	
4	**Cross-2 (LHS)**								
	Total length of drain = 60.00 Mtr								
	Main Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	481	2.40			0.62	715.73	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	20	60.00			0.62	744.00	
5	**Cross-3 (LHS)**								
	Total length of drain = 70.00 Mtr								
	Main Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	561	2.40			0.62	834.77	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	1	20	70.00			0.62	868.00	
	Double Mat								
	For RCC Culverts								
1	**Someshwara Layout, 2nd B Cross**								
	Total length of drain = 8.10 Mtr								
	Main Bars 12mm dia@.125mm c/c								
	0.89kg/mtr	2	66	2.70			0.89	317.20	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	2	23	8.10			0.62	231.01	
2	**For Culverts - 2**								
	Total length of drain = 8.00 Mtr								
	Main Bars 12mm dia@.125mm c/c								
	0.89kg/mtr	2	66	2.70			0.89	317.20	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	2	23	8.00			0.62	228.16	
3	**For Culverts - 3, Cross-1**								
	Total length of drain = 6.50 Mtr								
	Main Bars 12mm dia@.125mm c/c								
	0.89kg/mtr	2	53	2.70			0.89	254.72	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	2	23	6.50			0.62	185.38	
4	**For Culverts - 3, Cross-3**								
	Total length of drain = 6.50 Mtr								
	Main Bars 12mm dia@.125mm c/c								
	0.89kg/mtr	2	53	2.70			0.89	254.72	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	2	23	6.50			0.62	185.38	
5	**For Culverts - 4, Cross-4**								

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	Description of Item	No	L	B1	B2	B (Avg)	D	Qty	Unit
	Total length of drain = 8.00 Mtr								
	Main Bars 12mm dia@.125mm c/c								
	0.89kg/mtr	2	65	2.70			0.89	312.39	
	Distrubution Bars 10mm dia@.125mm c/c								
	0.62kg/mtr	2	23	8.00			0.62	228.16	
								21999.42	
							Present Qty=	22.00	
							Limited Qty =	20.29	Tonne

16/6/2020
Assistant Engineer
Ward No.05

16/6/2020
Assistant Executive Engineer
Bytarayanapura Sub-Division

1	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.								
	For CC Road	01/07/2020 to 14/07/2020							
	Doddamma Devi Temple Opposite Road	1	15.00	3.50	3.30	3.40		51.00	
		1	15.00	3.30	3.00	3.15		47.25	
		1	15.00	3.30	3.00	3.15		47.25	
		1	15.00	3.30	3.00	3.15		47.25	
		1	16.00	3.30	3.00	3.15		50.40	
	Cross - 1	1	15.00	1.90	2.50	2.20		33.00	
		1	18.00	3.00	3.30	3.15		56.70	
	2nd B Cross	1	15.00	5.70	5.70	5.70		85.50	
		1	15.00	5.70	5.30	5.50		82.50	
		1	15.00	5.30	5.45	5.38		80.63	
		1	15.00	5.45	5.00	5.23		78.38	
		1	15.00	5.00	4.50	4.75		71.25	
							Present Qty=	731.10	Sqm

14/7/2020
Assistant Engineer
Ward No.05

14/7/2020
Assistant Executive Engineer
Bytarayanapura Sub-Division

8	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
	For CC Road								
	Doddamma Devi Temple Opposite Road	1	15.00	3.50	3.30	3.40	0.15	7.65	
		1	15.00	3.30	3.00	3.15	0.15	7.09	
		1	15.00	3.30	3.00	3.15	0.15	7.09	
		1	15.00	3.30	3.00	3.15	0.15	7.09	
		1	16.00	3.30	3.00	3.15	0.15	7.56	
	Cross - 1	1	15.00	1.90	2.50	2.20	0.15	4.95	
		1	18.00	3.00	3.30	3.15	0.15	8.51	
	2nd B Cross	1	15.00	5.70	5.70	5.70	0.15	12.83	
		1	15.00	5.70	5.30	5.50	0.15	12.38	
		1	15.00	5.30	5.45	5.38	0.15	12.09	
		1	15.00	5.45	5.00	5.23	0.15	11.76	
		1	15.00	5.00	4.50	4.75	0.15	10.69	

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Description of Item	No	L	B1	B2	B (Avg)	D	Qty	Unit
						Present Qty=	109.67	Cum

Assistant Engineer
Ward No.05 24/07/2020

Assistant Executive Engineer
Bytarayanapura Sub-Division 24/7/2020

Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift

For CC Road	17/08/2020 to 25/08/2020							
Doddamma Devi Temple Opposite Road	1	15.00	3.50	3.30	3.40		51.00	
	1	15.00	3.30	3.00	3.15		47.25	
	1	15.00	3.30	3.00	3.15		47.25	
	1	15.00	3.30	3.00	3.15		47.25	
	1	16.00	3.30	3.00	3.15		50.40	
Cross - 1	1	15.00	1.90	2.50	2.20		33.00	
	1	18.00	3.00	3.30	3.15		56.70	
2nd B Cross	1	15.00	5.70	5.70	5.70		85.50	
	1	15.00	5.70	5.30	5.50		82.50	
	1	15.00	5.30	5.45	5.38		80.63	
	1	15.00	5.45	5.00	5.23		78.38	
	1	15.00	5.00	4.50	4.75		71.25	
						Present Qty=	731.10	Cum

Assistant Engineer
Ward No.05 25/08/2020

Assistant Executive Engineer
Bytarayanapura Sub-Division 25/8/2020

EIRL-1 Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications

For CC Road								
Doddamma Devi Temple Opposite Road	1	15.00	3.50	3.30	3.40	0.15	7.65	
	1	15.00	3.30	3.00	3.15	0.15	7.09	
	1	15.00	3.30	3.00	3.15	0.15	7.09	
	1	15.00	3.30	3.00	3.15	0.15	7.09	
	1	16.00	3.30	3.00	3.15	0.15	7.56	
Cross - 1	1	15.00	1.90	2.50	2.20	0.15	4.95	
	1	18.00	3.00	3.30	3.15	0.15	8.51	
2nd B Cross	1	15.00	5.70	5.70	5.70	0.15	12.83	
	1	15.00	5.70	5.30	5.50	0.15	12.38	
	1	15.00	5.30	5.45	5.38	0.15	12.09	
	1	15.00	5.45	5.00	5.23	0.15	11.76	
	1	15.00	5.00	4.50	4.75	0.15	10.69	
						Present Qty=	109.67	Cum

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Bytarayanapura Sub-Division 25/8/2020

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Description of Item	No	L	B1	B2	B (Avg)	D	Qty	Unit
Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specification								
For side filling								
						Vide 50% of the Qty No.1 Present Qty=	666.94	Cum

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Bytarayanapura Sub-Division

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